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THE ARAB REPUBLIC OF EGYPT

# MONTHLY WEATHER REPORT

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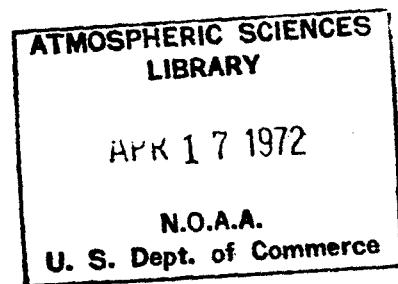
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THE EGYPTIAN METEOROLOGICAL AUTHORITY  
CAIRO

**National Oceanic and Atmospheric Administration**

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## **PUBLICATIONS OF THE METEOROLOGICAL AUTHORITY OF THE ARAB REPUBLIC OF EGYPT — CAIRO**

In fulfilment of its duties, the Meteorological Authority of Egypt issues several reports and publications on weather, climate and agrometeorology. The principal publications are described on this page.

Orders for publications should be addressed to :

"Chairman of the Board of Directors, Meteorological Authority, Kubri-el-Qubbeh — CAIRO".

### **THE DAILY WEATHER REPORT**

This report is issued daily by the Meteorological Authority since the year 1901. It includes surface and upper air observations carried out by the relevant networks of the Republic at the principal hours of observations.

As from January 1968, this report was revised to include a condensed representative selection of surface and upper air observations besides the 1200 U.T. surface & 500 mb charts.

### **THE MONTHLY WEATHER REPORT**

First issued in 1909, the Monthly Weather Report served to give a brief summary of the weather conditions that prevailed over Egypt during the month, with a table showing the mean values for few meteorological elements and their deviations from the normal values. From 1954 to 1957 this report was in a rapid state of development and extension resulting into a voluminous report on January 1958 giving surface, upper air, and agro-meteorological data for Egypt.

As from January 1964, the Monthly Weather Report was pressed to give climatological data for a representative selection of synoptic stations.

### **THE AGRO-METEOROLOGICAL ABRIDGED MONTHLY REPORT**

Gives a review of weather experienced in the agro-meteorological stations of Egypt as well as monthly values of certain elements.

### **THE ANNUAL REPORT**

This report gives annual values and statistics for the various meteorological elements, together with a summary of the weather conditions that prevailed during all months of the year.

### **CLIMATOLOGICAL NORMALS FOR EGYPT**

A voluminous edition was issued in March 1968 which brings normals and mean values up till 1960.

### **METEOROLOGICAL RESEARCH BULLETIN**

First issued in January 1969 on a bi-annual basis. It includes research works carried out by members of staff of "The Meteorological Institute for Research and Training" and the Operational Divisions of Meteorological Authority.

### **TECHNICAL NOTES**

As from October 1970, the Meteorological Authority started to issue a new series of publications in the form of Technical Notes (non periodical) on subjects related to studies and applications of meteorology in different fields for the benefit of personnel working in these fields.

The first Technical Note I was issued in October 1970 on : Sandstorms & Duststorms in Egypt.



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THE EGYPTIAN METEOROLOGICAL AUTHORITY  
CAIRO

**NOTICE**

**As from 25th November 1971 the name of the (Meteorological Department) has been changed to be the (Meteorological Authority).**

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*Note : For explanatory notes on tables please refer to Volume 9, Number 1 (January 1966).*

# GENERAL SUMMARY OF WEATHER CONDITIONS

SEPTEMBER 1966

Generally mild weather in the northern parts, rather hot in the central parts and excessively hot in the southern parts. Few days of scattered rain and thunderstorms. Records for daily rainfall at Sallum, Sidi Barrani, Alexandria, Rosetta and Port Said. Frequent early morning low clouds with scattered mist and fog over Delta, Canal and Cairo areas.

## GENERAL DESCRIPTION OF WEATHER

The prevailing weather most days of this month was mild in the northern parts, rather hot in the central parts and excessively hot in the southern parts. The month was characterized by four rainy days in the northern parts on the 8th, 9th, 21st & 22nd and a rainy period between (26—30th) during which rain extended southwards till Cairo area on the 28th. Rain was heavy and associated with thunderstorms over scattered localities in the northern coast where the monthly rainfall exceeded its normal values appreciably. It is worthy to mention that the daily rainfall was a record for September at Sallum, Sidi Barrani, Alexandria, Rosetta & Port Said.

Early morning low clouds developed frequently with scattered fog and mist patches over Delta, Canal & Cairo area.

## PRESSURE DISTRIBUTION

The most outstanding features of pressure distribution on the surface maps during this month were :

- High pressure extending from the Atlantic anticyclone to Western Europe.
- High pressure extending from Siberia to SW Russia.
- Travelling deep low pressure systems moving eastwards through North Urasia and their shallow secondaries over north of Italy & Balkans.

— A weak ridge over Central Mediterranean & Libya.

— The complex monsoon low pressure system over the Arabian Gulf, Arabia & Sudan.

The barometric pressure over Egypt during this month was oscillatory and experienced five falls round the periods (3rd-5th), (7th-9th) (11th—13th), (17th—21st) & (27th—29th).

With the exception of the fourth pressure fall (during the period 17th—21st) the pressure falls can be attributed to the westward elongation of the Iraq monsoon trough through East Mediterranean during transits of the deep low pressure systems through the Black & Caspian Seas areas.

The fourth pressure fall was due to the passage of a secondary low originating at the Gulf of Serte on the 18th. This secondary low proceeded eastward and traversed northern parts of Egypt on the 21st then it changed its course NE ward to Cyprus.

Apart from the mentioned periods of pressure falls, high pressure established over East and Central Mediterranean and the atmospheric pressure over Egypt was slightly above normal.

On the 700 & 500 mb. upper charts, the most outstanding features were :

- Two deep upper low pressure systems, one over North Urasia and the other over North Atlantic.

— Secondary upper troughs (or lows) moving eastwards between latitudes 30° and 45° N.

These upper troughs passed through East Mediterranean & north of Egypt on the 4th, 9th, 17th, 23rd & 27th. The troughs passing on the 9th & 23rd were the most sharpest and were associated with local heavy precipitation over north Egypt.

— Upper high pressure belt south of latitude 30°N.

The highest wind speed in the upper air at Mersa Matruh,, Helwan and Aswan was 106, 127 & 98 Knots on the 21st, 10th & 25th respectively.

#### SURFACE WIND

The prevailing winds during this month were light to moderate Nly and NWly in most districts of the Republic. Fresh to strong winds blew during many days of the month over scattered localities of the Red Sea district and blew for few days in scattered localities of the northern coast, Western Desert & Upper Egypt districts. Winds dropped to calms most of night and early morning intervals in scattered localities.

Gales were reported at : Damietta on the 9th.

#### TEMPERATURE

A moderate heat wave was experienced most of the fourth week and rise in maximum temperature above normal ranged between (2°C & 4°C). During rest of the month maximum temperature oscillated slightly round its nor-

mal (1°C to 2°C). Most days of the month, maximum temperature values ranged between 28°C & 31°C in the northern parts, between 32°C & 36°C in the central parts and between 38°C & 42°C in the southern parts.

The absolute maximum temperature for the Republic was 43.0°C reported at Aswan on the 24th.

Minimum temperature oscillated slightly round normal (1°C—3°C) most days of the month and its values ranged generally between 17°C & 23°C in the northern parts and central parts. In the southern parts it was moderately below normal (2°C—4°C) most days of the month and its values ranged generally between 19°C & 24°C.

The absolute minimum temperature for the Republic was 14.4°C reported at Shebin El Kom on the 18th.

#### PRECIPITATION

Rain fell over scattered localities in the northern parts of Egypt on the 8th, 9th, 21st, 22nd & the period (26th—30th). It was associated sometimes with thunderstorms and extended southwards till Cairo on the 28th. In particular daily rain was abnormally heavy and attained record values at Rosetta on the 28th, Alexandria on the 8th, Sidi Barrani on the 21st and at Sallum on 22nd & Port Said on the 28th.

The absolute daily rainfall was 85.0 mms reported at Rosetta on the 9th.

The absolute monthly rainfall was 87.0 m.m. reported at Rosetta.

Cairo, December 1971

Chairman (M. F. TAHA)  
Board of Directors

**SURFACE DATA**

**Table A 1. — MONTHLY VALUES OF THE ATMOSPHERIC PRESSURE, AIR TEMPERATURE,  
RELATIVE HUMIDITY, BRIGHT SUNSHINE DURATION & PICHE EVAPORATION.**

**SEPTEMBER — 1966**

STATION	Atmospheric Pressure (mbs) M.S.L		Air Temperature °C								Relative Humidity %		Bright Sunshine Duration (Hours)			Piche Evaporation mm. Mean	
	Mean	D.F. Normal or Average	Maximum		Minimum		A+B 2	Dry Bulb		Wet Bulb		Mean	D.F. Normal or Average	Total Actual	Total Possible	%	
			(A) Mean	D.F. Normal or Average	(B) Mean	D.F. Normal or Average		Mean	D.F. Normal or Average	Mean	D.F. Normal or Average						
Sallum . . . . .	1013.7	— 0.1	28.8	— 0.5	20.5	+ 0.3	24.6	24.4	— 0.4	20.2	+ 0.1	16	+ 3	—	—	—	7.8
Mersa Matruh (A)	1013.4	— 0.3	28.7	+ 0.1	19.5	— 0.1	24.1	24.1	— 0.1	19.9	— 0.1	66	— 1	—	—	—	7.0
Alexandria . . (A)	1012.8	+ 0.2	29.0	— 0.5	20.6	— 0.6	24.8	24.9	— 1.1	20.9	— 0.3	68	0	314.6	370.8	85	6.4
Port Said . . (A)	1012.0	+ 0.1	28.2	— 1.0	24.3	+ 0.5	26.2	26.1	0.0	22.3	+ 0.2	71	+ 2	279.2	370.8	75	6.8
El Arish . . . . .	1012.1	+ 0.6	30.5	+ 0.7	21.1	+ 0.7	25.8	25.9	+ 0.3	21.9	0.0	69	— 2	—	—	—	5.3
Ghazza . . . . .	1011.6	+ 0.4	29.9	+ 1.7	21.0	+ 0.5	25.4	25.6	+ 0.5	21.5	— 0.3	68	— 6	317.6	371.1	86	6.6
Tanta . . . . .	1012.0	+ 0.6	32.5	+ 0.1	18.9	+ 1.3	25.7	24.9	+ 0.4	20.5	+ 0.7	65	+ 2	317.6	370.3	86	5.4
Cairo . . . . (A)	1012.2	— 0.4	32.8	+ 0.5	20.7	+ 0.8	26.8	26.3	+ 0.8	20.0	— 0.2	54	— 4	—	—	—	14.8
Fayoum . . . . .	1011.7	+ 0.2	34.3	+ 0.6	19.9	+ 0.3	27.1	26.8	+ 0.4	20.6	+ 0.9	56	+ 5	—	—	—	7.6
Minya . . . . (A)	1011.2	+ 0.2	33.2	— 0.2	18.3	— 0.3	25.8	26.1	+ 0.5	18.7	— 0.9	46	— 9	304.3	370.1	82	10.5
Aasyout . . . . (A)	1010.7	+ 0.3	34.6	— 0.3	20.9	+ 0.8	27.8	27.7	+ 0.2	18.9	+ 0.4	39	0	—	—	—	17.1
Luxor . . . . (A)	1009.2	+ 0.9	38.7	+ 0.4	22.1	+ 0.7	30.4	30.5	+ 0.5	19.3	— 0.1	30	— 2	—	—	—	14.6
Aewan . . . . (A)	1008.7	+ 0.7	39.9	+ 0.7	20.5	— 1.6	30.2	31.4	+ 0.6	17.6	+ 0.4	19	0	—	—	—	20.5
Siwa . . . . .	1012.6	— 1.3	34.3	— 0.6	19.5	+ 1.2	26.9	27.0	+ 0.1	18.5	0.0	40	— 1	—	—	—	12.7
Bahariya . . . . .	1011.8	— 0.1	34.9	+ 0.9	20.9	+ 2.1	27.8	28.1	+ 1.5	19.0	+ 0.4	39	— 4	—	—	—	10.0
Farafra . . . . .	1013.5	+ 0.3	34.7	+ 0.3	19.2	+ 0.3	27.0	26.7	0.0	17.4	+ 0.9	35	+ 4	—	—	—	16.8
Dakhlia . . . . .	1011.4	+ 1.2	35.7	+ 0.1	19.8	— 0.5	27.8	28.5	+ 0.5	17.3	+ 0.1	27	— 1	—	—	—	19.8
Kharga . . . . .	1010.3	+ 0.3	37.4	+ 0.8	22.8	+ 1.5	30.1	30.2	+ 1.6	18.1	+ 0.2	30	— 2	343.1	369.0	93	25.2
Tor . . . . .	1009.3	+ 1.3	32.1	— 0.5	22.5	— 0.3	27.3	27.7	+ 0.3	21.9	0.0	58	— 2	—	—	—	14.0
Hurghada . . . . .	1008.8	+ 0.8	32.4	+ 1.6	22.8	— 0.3	27.6	27.9	+ 0.1	20.5	— 0.5	48	— 4	—	—	—	19.8
Quseir . . . . .	1009.8	+ 1.6	31.0	— 0.9	24.5	— 0.7	27.8	28.1	+ 0.2	21.3	+ 0.1	52	— 1	—	—	—	14.7

Table A 2.—MAXIMUM AND MINIMUM AIR TEMPERATURES

SEPTEMBER — 1966

Station	Maximum Temperature °C					Grass Min. Temp.		Minimum Temperature °C					No. of Days with Min. Temp.						
	Highest	Date	Lowest	Date	Ns. of Days with Max-Temp.					Mean	Dev. From Normal	Highest	Date	Lowest	Date				
					>25	>30	>35	>40	>45						<10	<5			
Sallum . . . . .	32.0	19	25.8	28	30	5	0	0	0	20.0	—	22.7	20	17.8	28	0	0	0	0
Mersa Matruh (A)	33.6	21	26.7	28	30	3	0	0	0	—	—	23.7	4	16.4	14	0	0	0	0
Alexandria . . . (A)	33.6	8	28.2	29	30	12	0	0	0	—	—	24.5	3	17.6	18	0	0	0	0
Port Said . . . (A)	32.2	22	26.7	29	30	1	0	0	0	22.6	—	25.9	1	22.8	29	0	0	0	0
El Arish . . . . .	35.4	22	28.7	30	30	20	1	0	0	20.0	—	25.7	2	18.6	17	0	0	0	0
Ghazza . . . . .	35.4	22	28.1	30	30	10	1	0	0	20.4	—	23.4	4	18.5	30	0	0	0	0
Tanta . . . . .	35.8	21	28.8	28	30	29	1	0	0	—	—	21.8	22	16.5	26	0	0	0	0
Cairo . . . . . (A)	35.5	21,22	30.3	30	30	30	2	0	0	—	—	25.3	22	18.6	30	0	0	0	0
Fayoum . . . . .	37.2	21	31.3	30	30	30	8	0	0	18.7	—	21.8	3	18.3	18	0	0	0	0
Minya . . . . . (A)	39.4	21	30.2	30	30	30	7	0	0	17.3	—	21.4	2	15.4	8	0	0	0	0
Assyout . . . . . (A)	37.6	22	31.0	30	30	30	10	0	0	19.2	—	23.4	23	18.8	8,18	0	0	0	0
Luxor . . . . . (A)	41.5	24	36.0	30	30	30	30	5	0	16.4	—	24.8	3	18.4	18	0	0	0	0
Awwan . . . . . (A)	43.0	24	37.3	17	30	30	30	14	0	—	—	22.8	4	16.8	20	0	0	0	0
Siwa . . . . .	36.8	2	30.7	30	30	30	15	0	0	17.9	—	22.7	27	17.2	24	0	0	0	0
Bahariya . . . . .	37.9	20	31.0	30	30	30	13	0	0	19.1	—	22.9	3,22	18.5	19	0	0	0	0
Farafra . . . . .	38.0	20	31.0	30	30	30	16	0	0	18.3	—	21.9	22	16.0	19	0	0	0	0
Dakhla . . . . .	41.3	28	32.1	30	30	30	23	3	0	—	—	23.8	24	15.6	16	0	0	0	0
Kharga . . . . .	41.0	24	33.2	30	30	30	29	3	0	20.9	—	27.5	24	18.5	9	0	0	0	0
Tor . . . . .	38.0	9	29.0	18	30	27	3	0	0	—	—	26.0	2	19.4	16	0	0	0	0
Hurghada . . . . .	35.8	24	30.5	30	30	30	1	0	0	21.5	—	25.9	1	19.9	9	0	0	0	0
Quseir . . . . .	33.3	22	29.6	11,18	30	25	0	0	0	23.1	—	27.3	24	21.8	18	0	0	0	0

Table A 3.—SKY COVER AND RAINFALL

SEPTEMBER — 1966

Station	Mean Sky Cover Oct					Rainfall mms											
	00		06		12	18	Daily	Total	Dev. From	Max. Fall in one day		Number of Days With Amount of Rain					
	U.T.	U.T.	U.T.	U.T.	Mean	Amount	Normal	Amount	Date	< 0.1	≥ 0.1	≥ 1.0	≥ 5.0	≥ 10	≥ 25	≥ 50	
Sallum . . . . .	0.7	1.6	2.8	1.2	1.6	21.2	+20.5	12.4	22	1	3	2	2	1	0	0	
Mersa Matruh . . (A)	1.0	2.2	2.7	2.4	2.0	10.0	+ 9.0	7.0	27	1	3	2	1	0	0	0	
Alexandria . . . (A)	2.6	3.0	3.1	2.3	2.8	23.2	+22.7	22.6	8	1	2	1	1	1	0	0	
Port Said . . . (A)	1.0	2.2	1.0	1.1	1.4	5.4	+ 5.3	5.4	28	1	1	1	1	0	0	0	
El Arish . . . . .	2.3	2.2	1.5	1.8	2.1	0.0	- 0.6	0.0	—	0	0	0	0	0	0	0	
Ghazza . . . . .	3.4	2.0	1.4	2.2	2.4	0.0	- 0.2	0.0	—	0	0	0	0	0	0	0	
Tanta . . . . .	1.0	1.1	1.9	0.2	1.1	0.8	+ 0.6	0.5	29	0	2	0	0	0	0	0	
Cairo . . . . . (A)	1.9	1.5	2.0	0.4	1.6	0.1	+ 0.1	0.1	28	0	1	0	0	0	0	0	
Fayoum . . . . .	—	1.0	1.5	0.7	—	0.0	0.0	0.0	—	0	0	0	0	0	0	0	
Minya . . . . . (A)	0.1	1.2	0.7	0.0	0.4	0.0	- 0.1	0.0	—	0	0	0	0	0	0	0	
Assyout . . . . . (A)	0.1	0.2	0.2	0.1	0.2	0.0	- tr.	0.0	—	0	0	0	0	0	0	0	
Luxor . . . . . (A)	0.0	0.4	0.3	0.3	0.2	0.0	- 0.1	0.0	—	0	0	0	0	0	0	0	
Aswan . . . . . (A)	0.2	0.6	1.1	0.9	0.7	0.0	0.0	0.0	—	0	0	0	0	0	0	0	
Siwa . . . . .	0.2	0.7	2.0	1.8	0.1	tr.	- 0.1	tr.	37	1	0	0	0	0	0	0	
Bahariya . . . . .	0.6	1.1	1.1	0.5	0.9	tr.	0.0	tr.	27	1	0	0	0	0	0	0	
Farafra . . . . .	—	0.1	0.5	0.0	—	0.0	0.0	0.0	—	0	0	0	0	0	0	0	
Dakhla . . . . .	0.2	0.4	0.3	0.0	0.3	0.0	0.0	0.0	—	0	0	0	0	0	0	0	
Kharga . . . . .	0.0	0.2	0.2	0.1	0.1	0.0	- tr.	0.0	—	0	0	0	0	0	0	0	
Tor . . . . .	0.3	0.5	1.0	0.9	0.5	0.0	0.0	0.0	—	0	0	0	0	0	0	0	
Hurghada . . . . .	0.0	0.1	0.6	0.1	0.1	0.0	0.0	0.0	—	0	0	0	0	0	0	0	
Quseir . . . . .	0.0	0.3	0.6	0.3	0.3	0.0	- tr.	0.0	—	0	0	0	0	0	0	0	

Table A 4.—DAYS OF OCCURRENCE OF MISCELLANEOUS WEATHER PHENOMENA

SEPTEMBER — 1966

Station	Precipitation				Frost	Thunderstorm	Mist Vis ≥ 1000 metres	Fog Vis <1000 Metres	Haze Vis ≥1000 Metres	Thick Haze Vis <1000 Metres	Dust or Sandrising Vis ≥1000 Metres	Dust or Sandstorm Vis <1000 Metres	Gale	Clear Sky	Cloudy Sky	
	Rain	Snow	Ice. Pellets	Hail												
Sallum. . . . .	3	0	0	0	0	1	0	0	0	0	0	0	0	0	20	0
Marsa Matruh. .(A)	3	0	0	0	0	3	8	1	0	0	0	1	0	0	17	0
Alexandria. . .(A)	2	0	0	0	0	0	0	0	0	0	0	0	0	0	26	0
Port Said. . . .(A)	1	0	0	0	0	0	7	0	0	0	0	1	0	0	14	0
El Arish. . . . .	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	0
Ghazala. . . . .	0	0	0	0	0	0	0	0	0	0	0	0	0	0	—	0
Tanta. . . . .	2	0	0	0	0	0	0	2	0	0	0	0	0	0	27	0
Cairo. . . . .(A)	1	0	0	0	0	0	13	1	0	0	2	0	0	0	21	0
Fayoum. . . . .	0	0	0	0	0	0	0	0	0	0	0	0	0	0	—	0
Minya. . . . .(A)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29	0
Assyout. . . . .(A)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0
Luxor. . . . .(A)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27	0
Aswan. . . . .(A)	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0
Siwa. . . . .	0	0	0	0	0	0	0	0	0	0	0	1	0	0	25	0
Bahariya. . . . .	0	0	0	0	0	0	0	0	0	0	0	2	0	0	23	0
Farafra. . . . .	0	0	0	0	0	0	0	0	0	0	0	0	0	0	—	0
Dakhla. . . . .	0	0	0	0	0	0	0	0	0	0	0	1	0	0	29	0
Kharga. . . . .	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0
Tor. . . . .	0	0	0	0	0	0	0	0	0	0	17	0	0	0	27	0
Hurgada. . . . .	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29	0
Quseir . . . . .	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0

**Table A 5.—NUMBER IN HOURS OF OCCURRENCES OF CONCURRENT SURFACE WIND SPEED AND DIRECTION RECORDED WITHIN SPECIFIED RANGES**  
**SEPTEMBER — 1966**

Station	Calm (hours)	Variable (hours)	Unrecorded (hours)	Wind speed in knots*	Number in hours of occurrences of wind blowing from the ranges of directions indicated													All directions
					345	015	045	075	105	135	165	195	225	255	285	315		
					/	/	/	/	/	/	/	/	/	/	/	/		
					014	014	074	104	134	164	194	224	254	284	314	344		
Sallum . . . . .	31	9	0	1—10	92	146	53	29	4	7	5	14	12	42	102	127	633	
				11—27	12	7	1	0	0	0	0	0	0	1	4	11	11	
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0	
				≥ 48	0	0	0	0	0	0	0	0	0	0	0	0	0	
				All speeds	104	153	54	29	4	7	5	14	13	46	113	138	689	
Mersa Matruh. (A)	52	0	0	1—10	179	128	11	8	4	7	14	18	41	62	31	29	532	
				11—27	79	18	0	1	1	0	0	0	0	1	4	11	21	
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0	
				≥ 48	0	0	0	0	0	0	0	0	0	0	0	0	0	
				All speeds	258	146	11	9	5	7	14	18	42	66	42	50	668	
Alexandria . . (A)	3	0	3	1—10	184	44	24	15	10	21	32	52	8	13	38	217	658	
				11—27	8	1	0	0	0	0	0	7	4	4	10	22	56	
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0	
				≥ 48	0	0	0	0	0	0	0	0	0	0	0	0	0	
				All speeds	192	45	24	15	10	21	32	59	12	17	48	239	714	
Port Said . . (A)	4	2	0	1—10	225	53	8	12	9	2	2	5	25	49	25	81	496	
				11—27	197	8	1	0	0	1	0	8	9	11	2	71	218	
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0	
				≥ 48	0	0	0	0	0	0	0	0	0	0	0	0	0	
				All speeds	322	61	9	12	9	3	2	13	34	60	27	152	714	
Tanta . . . . .	46	1	7	1—10	76	126	45	16	12	11	9	14	55	149	16	126	658	
				11—27	0	0	0	0	0	0	0	0	2	6	0	0	8	
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0	
				≥ 48	0	0	0	0	0	0	0	0	0	0	0	0	0	
				All speeds	76	126	45	16	12	11	9	14	52	155	16	126	666	
Cairo . . . . (A)	69	3	18	1—10	154	123	79	42	10	5	4	4	3	11	11	71	517	
				11—27	35	47	3	6	6	1	1	0	5	4	1	4	113	
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0	
				≥ 48	0	0	0	0	0	0	0	0	0	0	0	0	0	
				All speeds	189	170	82	48	16	6	5	4	8	15	12	75	630	
Fayoum . . . . .	6	4	52	1—10	290	196	16	2	0	4	5	11	15	12	14	76	641	
				11—27	3	9	0	0	0	0	0	0	4	1	0	0	17	
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0	
				≥ 48	0	0	0	0	0	0	0	0	0	0	0	0	0	
				All speeds	293	205	16	2	0	4	5	11	19	13	14	76	658	
Minya . . . . .	7	24	4	1—10	205	36	1	0	0	9	7	2	12	6	22	236	536	
				11—27	70	1	0	0	0	0	0	0	4	3	2	69	149	
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0	
				≥ 48	0	0	0	0	0	0	0	0	0	0	0	0	0	
				All speeds	275	31	1	0	0	9	7	2	16	9	24	305	685	
Assyout . . . . .	0	0	21	1—10	6	1	4	0	2	4	3	3	73	205	152	70	523	
				11—27	1	1	0	5	0	0	0	0	9	105	54	175		
				28—47	0	0	0	1	0	0	0	0	0	0	0	0	1	
				≥ 48	0	0	0	0	0	0	0	0	0	0	0	0	0	
				All speeds	7	2	4	6	2	4	3	3	73	214	237	124	699	

**Table A 5. (contd.)—NUMBER IN HOURS OF OCCURRENCES OF CONCURRENT SURFACE WIND SPEED AND DIRECTION RECORDED WITHIN SPECIFIED RANGES**

**SEPTEMBER — 1966**

Station	Calm (hours)	Variable (hours)	Unrecorded (hours)	Wind speed in knots	Number in hours of occurrences of wind blowing from the ranges of directions indication													All directions
					345	015	045	075	105	135	165	195	225	255	285	315		
					014	014	074	104	134	164	194	224	254	284	314	344		
Luxor . . . . . (A)	2	0	0	1—10	56	31	22	14	22	40	114	56	34	75	160	99	718	718
				11—27	0	0	0	0	0	0	0	0	0	0	0	0	5	5
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥ 48	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	56	31	22	14	22	40	114	56	34	75	150	104	718	718
Aswan . . . . . (A)	1	0	0	1—10	176	204	15	4	4	1	0	3	0	39	6	93	545	545
				11—27	68	71	0	0	0	0	0	0	0	0	6	0	29	174
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥ 48	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	244	273	15	4	4	1	0	3	0	45	6	122	719	719
Siwa . . . . .	12	33	0	1—10	46	64	93	61	38	12	11	14	25	94	70	90	618	618
				11—27	5	11	10	4	0	0	0	0	2	8	14	3	57	57
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥ 48	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	51	75	103	65	38	12	11	14	27	102	84	93	675	675
Kharga . . . . .	10	5	3	1—10	194	55	13	12	2	2	1	1	4	5	30	117	436	436
				11—27	195	26	0	0	0	0	0	0	0	1	10	34	266	266
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥ 48	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	389	81	13	12	3	2	1	1	4	6	40	151	702	702
Hurghada. . . . .	7	2	0	1—10	5	4	7	2	3	6	4	3	4	9	62	25	134	134
				11—27	193	17	2	0	0	0	0	0	0	7	115	232	506	506
				28—47	1	0	0	0	0	0	0	0	0	0	0	10	11	0
				≥ 48	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	199	21	9	2	3	6	4	3	4	16	171	267	711	711
Quseir . . . . .	0	15	0	1—10	80	49	12	6	4	5	10	8	7	16	79	159	435	435
				11—27	123	100	0	0	0	0	0	0	0	0	0	1	46	270
				28—47	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				≥ 48	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				All speeds	203	149	12	6	4	5	10	8	7	16	80	203	705	705

**UPPER AIR CLIMATOLOGICAL DATA**

**Table B 1.—MONTHLY MEANS AND MONTHLY ABSOLUTE HIGHER & LOWER  
VALUES OF ALTITUDE, AIR TEMPERATURE & DEW POINT AT  
STANDARD AND ELECTED PRESSURE SURFACES**

**SEPTEMBER — 1966**

Station	Pressure Surface (Millibar)	Altitude of Pressure Surface (gpm)				Temperature (°C)				Dew Point (°C)	
		N	Mean	Highest	Lowest	N	Mean	Highest	Lowest	N	Mean
Marsa Matruh (A) 0000 UT	Surface	30	1014m.b.	1017m.b.	1008m.b.	30	21.7	24.8	19.2	30	17.9
	1000	30	112	175	97	30	21.9	23.9	18.2	30	18.1
	850	30	1541	1572	1487	30	15.3	21.1	8.6	27	3.9
	700	30	3100	3206	3089	30	6.6	12.7	0.3	14	— 6.1
	600	30	4410	4458	4323	30	— 0.1	4.1	— 6.0	8	— 14.4
	500	29	5848	5908	5737	29	— 9.4	— 5.3	— 13.8	4	— 20.1
	400	29	7531	7611	7397	29	— 22.6	— 17.8	— 27.5	4	— 31.2
	300	28	9587	9685	9455	28	— 36.7	— 30.7	— 43.2	—	—
	200	24	12285	12442	12100	24	— 53.4	— 47.8	— 60.7	—	—
	150	21	14096	14262	13859	21	— 62.1	— 57.2	— 66.0	—	—
	100	12	16569	16710	16364	12	— 67.0	— 62.2	— 71.8	—	—
	70	10	18763	18870	18590	10	— 61.8	— 59.0	— 64.3	—	—
	60	10	19713	19839	19555	10	— 59.4	— 57.6	— 61.0	—	—
	50	10	20862	20986	20710	10	— 56.8	— 54.7	— 58.0	—	—
	40	9	22827	22404	22136	9	— 55.3	— 51.0	— 57.2	—	—
	30	7	24115	24205	23996	7	— 51.8	— 49.1	— 54.5	—	—
	20	—	—	—	—	—	—	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—
Helwan 0000 UT	Surface	29	* 996m.b.	* 1000m.b.	* 989m.b.	29	22.5	26.0	19.7	29	17.1
	1000	29	105	140	47	2	22.2	22.8	21.6	2	16.6
	850	29	1509	1544	1459	29	17.3	24.0	13.0	24	2.3
	700	29	3139	3179	3079	29	8.9	14.6	3.5	10	— 5.6
	600	29	4398	4434	4331	29	1.8	7.3	3.7	7	— 9.6
	500	29	5842	5904	5768	29	— 8.1	— 1.5	— 12.8	5	— 20.1
	400	29	7540	7644	7468	29	— 20.4	— 12.1	— 26.0	7	— 30.5
	300	29	9606	9760	9490	29	— 35.4	— 29.2	— 41.5	1	— 43.8
	200	29	12317	12487	12140	29	— 54.0	— 19.4	— 60.4	—	—
	150	29	14121	14293	13932	29	— 64.2	— 60.7	— 67.9	—	—
	100	28	16555	16718	16395	28	— 68.8	— 62.1	— 72.4	—	—
	70	27	18706	18880	18350	27	— 63.7	— 59.6	— 71.5	—	—
	60	24	19677	19828	19515	24	— 60.4	— 58.8	— 62.9	—	—
	50	18	20802	20974	20660	18	— 57.7	— 55.0	— 59.5	—	—
	40	17	22217	22401	22067	17	— 55.5	— 52.4	— 57.9	—	—
	30	15	24056	24284	23968	15	— 52.5	— 49.9	— 55.0	—	—
	20	11	26719	26960	26528	11	— 48.1	— 43.9	— 51.2	—	—
	10	—	—	—	—	—	—	—	—	—	—
Aswan (A) 0000 UT	Surface	18	* 987m.b.	* 990m.b.	* 982m.b.	18	26.2	29.0	22.0	18	8.2
	1000	18	75	106	35	—	—	—	—	—	—
	850	18	1505	1540	1466	18	23.4	27.6	20.7	17	0.5
	700	18	3165	3216	3124	18	12.3	16.2	8.7	15	— 3.3
	600	17	4431	4487	4390	17	1.0	5.8	— 2.1	14	— 11.3
	500	16	5868	5913	5822	16	— 8.0	— 5.0	— 10.8	5	— 20.2
	400	16	7572	7619	7517	16	— 18.1	— 15.0	— 21.2	1	— 36.7
	300	16	9655	9724	9575	16	— 34.1	— 31.4	— 37.2	1	— 43.8
	200	13	12398	12467	12253	12	— 54.4	— 52.1	— 57.5	—	—
	150	13	14183	14270	14038	13	— 66.0	— 60.9	— 67.8	—	—
	100	11	16569	16662	16472	11	— 74.6	— 69.5	— 78.0	—	—
	70	2	18665	18670	18660	2	— 69.4	— 63.7	— 75.0	—	—
	60	—	—	—	—	—	—	—	—	—	—
	50	—	—	—	—	—	—	—	—	—	—
	40	—	—	—	—	—	—	—	—	—	—
	30	—	—	—	—	—	—	—	—	—	—
	20	—	—	—	—	—	—	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—

N = The number of cases the element has been observed during the month.

\* The atmospheric pressure corrected to the elevation of the radiosonde station.

## UPPER AIR CLIMATOLOGICAL DATA

Table B 1.(contd.)—MONTHLY MEANS AND MONTHLY ABSOLUTE HIGHER & LOWER  
VALUES OF ALTITUDE, AIR TEMPERATURE & DEW POINT AT  
STANDARD AND SELECTED PRESSURE SURFACES

SEPTEMBER — 1966

Station	Pressure Surface (Millibar)	Altitude of Pressure Surface (gpm)				Temperature (°C)				Dew point (°C)	
		N	Mean	Highest	Lowest	N	Mean	Highest	Lowest	N	Mean
Marsa Matruh (A) 1200 UT	Surface	30	1014m.b.	1017m.b.	1009m.b.	30	27.3	28.8	24.2	30	20.2
	1000	30	150	178	108	30	25.8	28.4	22.7	30	18.6
	850	30	1556	1591	1599	30	16.7	24.3	12.6	26	4.1
	700	30	3180	3215	3118	30	7.4	14.2	2.4	14	— 7.1
	600	30	4433	4487	4363	30	0.7	5.9	— 4.2	6	— 11.7
	500	30	5872	5952	5796	30	— 8.7	— 4.4	— 14.1	5	— 19.3
	400	30	7559	76.6	7456	30	— 21.3	— 17.2	— 25.6	3	— 29.8
	300	29	9616	9754	9477	29	— 35.6	— 29.8	— 41.5	—	—
	200	28	12256	12498	12125	23	— 53.3	— 46.8	— 63.6	—	—
	150	27	14158	14343	13925	27	— 61.0	— 55.0	— 64.7	—	—
	100	20	16640	16788	16146	20	— 65.8	— 59.7	— 76.5	—	—
	70	14	18868	19030	18660	14	— 58.7	— 55.0	— 62.2	—	—
	60	13	19831	19927	19643	13	— 56.1	— 45.7	— 59.0	—	—
	50	11	20989	21102	20848	11	— 54.2	— 51.9	— 56.6	—	—
	40	7	22411	22511	22247	7	— 51.7	— 50.2	— 52.9	—	—
	30	6	24295	24407	24120	6	— 48.4	— 45.9	— 49.7	—	—
	20	4	27013	27139	26802	4	— 43.8	— 42.0	— 45.5	—	—
	10	—	—	—	—	—	—	—	—	—	—
Helwan 1200 UT	Surface	29	995m.b.	998m.b.	990m.b.	29	31.5	35.0	28.2	29	12.1
	1000	29	98	133	50	—	—	—	—	—	—
	850	29	1520	150.0	1479	29	18.4	22.5	14.0	29	5.8
	700	29	3156	3197	3104	29	9.7	15.3	5.9	11	— 6.0
	600	29	4418	4470	4364	29	2.4	7.5	— 3.5	7	— 10.1
	500	29	5.69	5981	5793	29	— 7.2	— 1.8	— 12.0	6	— 20.1
	400	29	7566	7677	7374	29	— 19.4	— 13.8	— 24.7	5	— 31.4
	300	23	9616	9793	9509	28	— 34.2	— 28.2	— 40.9	2	— 44.8
	200	28	12372	12524	12158	28	— 52.9	— 48.0	— 58.5	—	—
	150	27	14188	14388	13986	27	— 62.7	— 58.3	— 65.4	—	—
	100	26	16637	16824	16474	26	— 68.4	— 61.3	— 73.6	—	—
	70	20	18829	19000	18780	20	— 61.4	— 57.7	— 72.2	—	—
	60	16	19772	19952	19606	16	— 58.7	— 55.2	— 67.1	—	—
	50	15	20930	21114	20744	15	— 55.2	— 52.7	— 59.0	—	—
	40	11	22359	22557	22233	11	— 52.4	— 49.8	— 55.2	—	—
	30	9	24244	24440	24113	9	— 48.5	— 47.2	— 50.0	—	—
	20	7	2.941	27140	26770	7	— 44.8	— 43.5	— 47.6	—	—
	10	5	316.3	31905	31433	5	— 38.0	— 36.5	— 39.4	—	—
Aswan 1200 UT	Surface	21	981m.b.	988m.b.	982m.b.	21	38.3	41.0	36.0	21	5.8
	1000	21	64	92	28	—	—	—	—	—	—
	850	21	1520	1570	1486	21	25.1	32.0	22.3	19	0.1
	700	21	3183	3220	3146	21	12.9	21.8	7.4	16	— 5.8
	600	21	4454	4191	407	21	2.8	7.1	— 1.0	13	— 10.3
	500	19	5903	5948	5840	19	— 7.1	— 0.2	— 11.2	8	— 20.2
	400	19	7612	7679	7542	19	— 17.6	— 11.7	— 20.6	—	—
	300	19	9097	9821	9619	19	— 33.0	— 27.5	— 38.0	—	—
	200	19	12431	12620	12289	19	— 53.0	— 46.7	— 53.1	—	—
	150	19	14235	14464	14091	19	— 64.9	— 61.3	— 67.8	—	—
	100	19	16655	16898	16525	19	— 72.4	— 68.4	— 78.0	—	—
	70	5	18780	19080	18660	5	— 64.3	— 52.3	— 67.0	—	—
	60	1	20011	—	—	1	— 57.8	—	—	—	—
	50	1	21170	—	—	1	— 54.1	—	—	—	—
	40	1	22614	—	—	1	— 49.1	—	—	—	—
	30	1	24530	—	—	1	— 41.9	—	—	—	—
	20	—	—	—	—	—	—	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—

N = The number of cases the element has been observed during the month.

\* The atmospheric pressure corrected to the elevation of the radiosonde station.

**Table B 2.—MEAN AND EXTREME VALUES OF THE FREEZING LEVEL AND THE TROPOPAUSE;  
THE HIGHEST WIND SPEED IN THE UPPER AIR**

**SEPTEMBER — 1966**

Station	Freezing Level									First Tropopause									Highest wind speed			
	Mean			Highest			Lowest			Mean			Highest			Lowest			Altitude (gpm)	Pressure (mb.)	Direction (000—360)°	
	Altitude (gpm)	Pressure (mb.)	Dew point (°C)	Altitude (gpm)	Pressure (mb.)	Dew point (°C)	Altitude (gpm)	Pressure (mb.)	Dew point (°C)	Altitude (gpm)	Pressure (mb.)	Temperature (°C)	Altitude (gpm)	Pressure (mb.)	Temperature (°C)	Altitude (gpm)	Pressure (mb.)	Temperature (°C)	Altitude (gpm)	Pressure (mb.)	Speed in Knots	
0000 U.T.	(N)	(N)	(N)							(N)	(N)	(N)										
	Mersa Matruh (A)	4348 (30)	604 (30)	-10.0 (9)	5100	552	-1	3180	695	-0.3	13920 (14)	162 (14)	-62.9 (14)	16676	100	-71.6	10960	245	-51.8	9250	308	240 98
	Helwan . . .	4656 (29)	582 (29)	-9.3 (7)	5040	517	-	3760	649	-6.2	15131 (27)	128 (27)	-69.6 (27)	16619	100	-72.4	12580	187	-62.8	15650	118	270 127
	Aswan . . . (A)	4521 (17)	593 (17)	-11.2 (13)	5030	554	-1	4000	629	-9.1	15475 (8)	120 (8)	-73.1 (8)	16100	110	-73.9	14520	138	-67.9	7800	387	250 47
	(N)	(N)	(N)							(N)	(N)	(N)										
	Mersa Matruh (A)	4702 (20)	601 (30)	-9.6 (6)	5360	538	-1	3560	666	-	14608 (19)	142 (19)	-63.7 (19)	16077	100	-67.6	12130	204	-59.6	8110	366	256 106
1200 U.T.	Helwan . . .	4795 (29)	573 (29)	-10.3 (7)	5160	518	-1	3960	634	-11.2	15487 (24)	123 (24)	-68.6 (24)	17920	80	-63.8	12020	204	-56.5	13960	156	260 106
	Aswan . . . (A)	4757 (18)	578 (18)	-12.5 (14)	5380	537	-1	4350	608	-14.7	15585 (17)	129 (17)	-73.3 (17)	16430	105	-72.6	14280	147	-66.3	19100	-	255 98

N = The number of cases the element has been observed during the month.

**Table B 3.—NUMBER OF OCCURRENCES OF WIND DIRECTION WITHIN SPECIFIED RANGES AND THE MEAN SCALAR WIND SPEED AT THE STANDARD AND SELECTED PRESSURE SURFACES**

MERSA MATRUH (A) — SEPTEMBER 1966

Time	Pressure Surface Millibar	Wind between specified ranges of direction (000—360)*														Number of calm winds	Total number of observations (TN)	Mean scalar wind										
		345		015		045		075		105		135		165		195		225		255		285						
		N 014	(ft) m	N 044	(ft) m	N 074	(ft) m	N 104	(ft) m	N 134	(ft) m	N 164	(ft) m	N 194	(ft) m	N 224	(ft) m	N 254	(ft) m	N 284	(ft) m	N 314	(ft) m	N 344	(ft) m			
0000 U.T.	Surface	6	7	3	6	0	—	0	—	0	—	2	5	0	—	5	4	4	8	1	5	3	9	6	30	5		
	1000	6	10	0	—	2	10	2	4	1	3	1	8	0	—	0	—	2	12	5	12	8	9	0	27	9		
	850	6	15	3	14	0	—	0	—	0	—	0	—	0	—	2	10	0	—	5	15	6	20	5	15	0	27	
	700	3	22	2	8	0	—	1	9	0	—	0	—	0	—	0	—	2	19	4	22	10	16	4	12	0	26	
	600	3	12	0	—	0	—	0	—	0	—	0	—	0	—	6	30	8	22	8	14	1	14	0	26			
	500	0	—	1	15	0	—	1	7	0	—	1	7	0	—	0	—	7	40	7	27	7	18	2	30	0	26	
	400	1	14	0	—	0	—	0	—	1	8	0	—	0	—	8	27	11	38	3	26	2	18	0	26			
	300	1	20	0	—	0	—	0	—	0	—	0	—	0	—	0	—	11	49	8	46	4	40	0	—	0	24	
	200	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	43	6	53	8	57	3	33	0	—	0	18	
	150	0	—	0	—	0	—	0	—	0	—	0	—	0	—	5	41	6	35	2	42	0	—	0	13			
	100	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	15	2	16	1	18	1	29	0	—	0	5	
	70	0	—	0	—	0	—	1	8	1	5	0	—	0	—	0	—	0	—	0	—	0	—	0	2			
	60	0	—	0	—	1	7	0	—	1	10	0	—	0	—	0	—	0	—	0	—	0	—	0	2			
	50	0	—	1	6	0	—	1	7	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	6			
	40	0	—	0	—	1	16	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	16			
	30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—				
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—				
1200 U.T.	Surface	19	11	7	10	0	—	0	—	0	—	0	—	0	—	0	—	1	6	1	13	0	—	2	13	0	30	11
	1000	9	10	0	—	0	—	0	—	0	—	0	—	0	—	1	6	0	—	0	—	1	7	19	12	0	30	11
	850	5	15	2	14	0	—	0	—	0	—	0	—	0	—	2	23	4	16	6	15	6	13	5	10	0	30	14
	700	3	11	2	12	0	—	0	—	1	8	0	—	1	12	1	5	7	21	4	18	9	16	2	10	0	30	16
	600	1	17	1	5	0	—	0	—	0	—	0	—	0	—	3	12	8	24	11	21	4	15	2	16	0	30	19
	500	1	21	0	—	1	11	0	—	0	—	0	—	0	—	0	—	12	26	10	29	4	21	2	16	0	30	25
	400	1	11	0	—	0	—	0	—	1	5	0	—	0	—	4	31	9	38	9	33	3	23	2	29	0	29	31
	300	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	11	48	11	44	3	34	1	38	0	26	45
	200	0	—	0	—	0	—	0	—	0	—	0	—	0	—	9	—	1	74	11	48	8	60	3	48	1	36	0
	150	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	9	41	4	49	2	36	1	46	0	16	41
	100	0	—	0	—	0	—	0	—	1	14	0	—	0	—	2	10	2	22	1	17	0	—	0	—	6	16	
	70	0	—	0	—	1	5	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	5	
	60	0	—	0	—	1	10	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	10	
	50	0	—	0	—	1	11	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	11	
	40	0	—	0	—	0	—	1	27	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	27	
	30	0	—	0	—	1	20	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	20	
	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0	—	—	—	—	—	—	—	—	—			
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0	—	—	—	—	—	—	—	—	—			

N = The number of cases the wind has been observed from the range of direction during the month.

TN = The total number of cases the wind has been observed for all directions during the month.

**Table B 3 (contd.).—NUMBER OF OCCURRENCES OF WIND DIRECTION WITHIN SPECIFIED RANGES AND THE MEAN SCALAR WIND SPEED AT THE STANDARD AND SELECTED PRESSURE SURFACES**  
**HELWAN—SEPTEMBER 1966**

Time	Pressure Surface Millibar	Wind between specified ranges of direction (000—360)°														Number of calm winds	Total number of observations (TN)	Mean scalar wind speed (knots)										
		345		015		045		075		105		135		165		195		225		255		285						
		/	014	/	044	/	074	/	104	/	134	/	164	/	194	/	224	/	254	/	284	/	314	/	344			
0000 U.T.	Surface	7	6	10	8	1	4	2	8	2	5	0	—	0	—	0	—	0	—	0	—	4	7	3	29	6		
	1000	0	—	2	8	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	2	8		
	850	8	10	3	1 <sup>a</sup>	1	6	1	12	0	—	0	—	0	—	1	18	2	14	5	11	8	13	0	29	12		
	700	4	9	1	7	0	—	0	—	1	5	1	2	0	—	0	—	2	27	7	18	10	16	3	15	0		
	600	1	9	0	—	0	—	0	—	0	—	2	12	0	—	8	28	10	19	8	15	0	—	0	29	20		
	500	0	—	0	—	0	—	0	—	0	—	1	29	1	18	10	29	14	25	2	12	1	4	0	29	24		
	400	0	—	0	—	0	—	0	—	0	—	0	—	2	26	12	31	13	38	2	26	0	—	0	29	33		
	300	0	—	0	—	0	—	0	—	0	—	0	—	1	9	10	45	13	56	4	31	0	—	0	28	47		
	200	0	—	0	—	0	—	0	—	0	—	0	—	3	41	9	52	11	53	1	42	0	—	0	24	51		
	150	0	—	0	—	0	—	0	—	0	—	0	—	1	26	11	50	3	33	1	22	0	—	0	16	44		
	100	0	—	0	—	0	—	0	—	0	—	0	—	2	15	2	21	2	22	5	45	0	—	0	11	31		
	70	0	—	0	—	0	—	2	14	0	—	1	14	2	12	0	—	0	—	1	10	0	—	0	6	12		
	60	0	—	0	—	0	—	4	10	1	13	0	—	0	—	0	—	0	—	0	—	0	—	0	5	10		
	50	0	—	0	—	1	21	2	18	1	31	0	—	0	—	0	—	0	—	0	—	0	—	0	4	22		
	40	0	—	0	—	1	32	2	22	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	3	26		
	30	0	—	0	—	0	—	2	25	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	2	25		
	20	0	—	0	—	1	8	0	—	1	38	0	—	0	—	0	—	0	—	0	—	0	—	0	2	23		
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
1200 U.T.	Surface	11	9	1	10	0	—	0	—	0	—	1	4	0	—	1	12	1	8	2	4	0	—	12	8	0	29	8
	1000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
	850	8	12	9	9	1	5	1	9	0	—	0	—	0	—	0	—	2	16	0	—	4	6	4	10	0	29	10
	700	0	—	0	—	1	5	0	—	0	—	0	—	1	7	3	12	10	17	9	16	3	13	2	11	0	29	15
	600	1	4	0	—	0	—	0	—	0	—	0	—	1	6	4	13	11	28	10	16	2	12	0	—	0	29	19
	500	0	—	1	12	0	—	0	—	0	—	0	—	1	17	2	22	12	26	13	22	0	—	0	—	0	29	23
	400	0	—	0	—	1	4	0	—	0	—	0	—	0	—	4	31	9	37	14	35	0	—	0	—	0	28	34
	300	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	14	52	14	41	0	—	0	—	0	28	46
	200	0	—	0	—	0	—	0	—	0	—	0	—	0	—	2	34	6	33	12	50	2	58	0	—	0	22	45
	150	0	—	0	—	0	—	0	—	0	—	0	—	0	—	2	30	7	35	10	49	2	37	0	—	0	21	41
	100	0	—	0	—	0	—	0	—	1	11	1	24	0	—	3	16	2	61	5	24	1	28	0	—	0	13	27
	70	1	22	1	23	0	—	0	—	1	24	3	19	0	—	0	—	1	40	0	—	0	—	0	—	0	7	24
	60	0	—	0	—	0	—	3	19	2	8	0	—	0	—	0	—	1	14	0	—	0	—	0	—	0	6	15
	50	0	—	0	—	0	—	1	14	0	—	2	18	0	—	0	—	0	—	0	—	0	—	0	—	0	3	17
	40	0	—	0	—	0	—	1	34	0	—	1	30	0	—	0	—	0	—	0	—	0	—	0	—	0	2	32
	30	0	—	0	—	0	—	1	35	1	12	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	2	24
	20	0	—	0	—	1	47	1	13	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	2	30
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	

N = The number of cases the winds has been observed from the range of direction during the month.

TN = The total number of cases the wind has been observed for all directions during the month.

**Table B 3 (contd.)—NUMBER OF OCCURRENCES OF WIND DIRECTION WITHIN SPECIFIED RANGES AND THE MEAN SCALAR WIND SPEED AT THE STANDARD AND SELECTED PRESSURE SURFACES**  
**ASWAN (A) — SEPTEMBER — 1966**

Time	Pressure Surface Millibar	Wind between ranges of direction (000—360) <sup>o</sup>														Number of calm winds	Total number of observations (TN)	Mean scalar wind speed (Knots)											
		345		015		045		075		105		135		165		195		225		255									
		/	014	/	044	/	074	/	104	/	134	/	164	/	194	/	224	/	254	/	284	/	314	/	344				
		N	(ft)	N	(ft)	N	(ft)	N	(ft)	N	(ft)	N	(ft)	N	(ft)	N	(ft)	N	(ft)	N	(ft)	N	(ft)	N	m	Total number of observations (TN)	Mean scalar wind speed (Knots)		
0000 U.T.	Surfaces	10	8	5	9	0	—	0	—	1	5	0	—	0	—	0	—	0	—	1	7	1	10	0	18	8			
	1000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
	850	2	8	0	—	0	—	0	—	1	7	2	10	0	—	1	18	0	—	1	16	2	12	2	18	0	11	12	
	700	1	7	0	—	0	—	0	—	0	—	0	—	1	32	2	24	5	19	1	34	0	—	0	—	0	10	22	
	600	0	—	0	—	0	—	0	—	0	—	0	—	3	25	4	26	0	—	0	—	0	—	0	—	0	7	26	
	500	0	—	0	—	0	—	0	—	0	—	1	7	6	14	3	26	0	—	0	—	0	—	0	—	0	7	19	
	400	0	—	0	—	0	—	0	—	0	—	1	6	1	7	3	23	0	—	0	—	0	—	0	—	0	5	17	
	300	0	—	0	—	0	—	0	—	1	7	1	9	1	18	0	—	0	—	0	—	0	—	0	—	0	3	11	
	200	0	—	0	—	0	—	0	—	1	28	2	18	0	—	0	—	0	—	0	—	0	—	0	—	0	3	21	
	150	0	—	0	—	0	—	0	—	2	20	0	—	1	12	0	—	0	—	0	—	0	—	0	—	0	3	17	
	100	0	—	0	—	0	—	0	—	2	20	0	—	1	22	0	—	0	—	0	—	0	—	0	—	0	3	21	
	70	1	26	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	1	26	
	60	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	40	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
1800 U.T.	Surfaces	11	10	2	10	0	—	0	—	0	—	0	—	0	—	0	—	0	—	3	12	3	8	2	21	9			
	1000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	850	5	12	1	2	1	3	1	11	1	4	0	—	0	—	3	11	3	19	3	10	3	14	0	21	11			
	700	0	—	0	—	0	—	0	—	1	25	1	5	1	14	6	28	5	22	5	21	1	10	1	35	0	21	23	
	600	0	—	0	—	0	—	0	—	0	—	0	—	1	19	7	29	6	20	4	20	1	10	1	28	0	20	23	
	500	1	34	0	—	0	—	1	10	0	—	0	—	1	8	4	8	9	14	2	19	1	6	0	—	0	19	15	
	400	0	—	0	—	1	13	2	6	0	—	0	—	0	—	3	25	5	23	3	17	3	10	1	8	0	18	17	
	300	0	—	0	—	1	22	0	—	0	—	2	21	0	—	1	46	8	29	3	32	3	14	0	—	0	18	27	
	200	0	—	0	—	0	—	0	—	0	—	2	18	1	24	4	20	6	36	4	36	0	—	1	14	0	18	30	
	150	1	10	0	—	0	—	0	—	1	20	1	20	0	—	5	19	9	34	1	33	0	—	0	—	0	18	27	
	100	1	12	0	—	0	—	0	—	2	22	0	—	1	18	0	—	6	20	4	11	0	—	0	—	0	—	14	
	70	0	—	0	—	0	—	1	16	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	1	16	
	60	—	—	—	—	—	—	—	—	1	36	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	1	36	
	50	—	—	—	—	—	—	—	—	1	36	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	1	36	
	40	—	—	—	—	—	—	—	—	1	33	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	1	33	
	30	—	—	—	—	—	—	—	1	33	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	1	33
	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	

N = The number of cases the element has been observed during the month.

TN = The total number of cases the wind has been observed for all directions during the month.

## REVIEW OF AGRO-METEOROLOGICAL STATIONS

EL KASR — SEPTEMBER 1966

This month was slightly cooler and drier than normal. Mean daily air temperature at two metres height above ground and total amount of rainfall were lower than normal by  $0.4^{\circ}\text{C}$  and 2.2 mm respectively. The month was characterised by a heat wave that prevailed from 20th to 22nd giving rise to the absolute maximum air temperature of the month on the 21st.

The extreme maximum soil temperatures down to 100 cm depth were higher than the corresponding values of September 1965, the differences varied between  $0.1^{\circ}\text{C}$  at 100 cm depth and  $0.5^{\circ}\text{C}$  at 0.3 cm depth. The extreme minimum soil temperatures at depths between 0.3 cm and 5 cm inclusive were higher, while at deeper layers were lower than the corresponding values of last September.

Mean daily wind speed at 2 metres height was 0.1 m/sec. higher than the corresponding value of September 1965. Mean daily Piche evaporation was 1.2 mm lower while mean daily pan evaporation was 1.15 mm higher than the corresponding values of last September. Total actual duration of bright sunshine was 9.2 hours lower than the corresponding value of September 1965.

TAHRIR — SEPTEMBER 1966

The month was characterised by rather warm weather that prevailed during the first half of the month and a warm spell on the 21st which was associated with the absolute maximum air temperature and the lowest relative humidity for the month. Mean daily air temperature at two metres height above ground was  $0.1^{\circ}\text{C}$  lower, while mean daily relative humidity was 2% higher than the corresponding values of September 1965.

Comparing with September 1965, the extreme maximum soil temperatures down to 100 cm depth in the dry field were higher, the maximum deviation was  $2.1^{\circ}\text{C}$  at 0.3 cm depth. The extreme minimum soil temperatures down to 100 cm depth were higher than the corresponding values for September 1965 (the maximum deviation was  $1.9^{\circ}\text{C}$  at 1 cm depth), except at depths 10 and 20 cm where the values were lower than the corresponding values for last September by 0.1 and  $0.3^{\circ}\text{C}$  respectively.

The mean daily wind speed at 2 metres height was 0.3 m/sec. lower than the corresponding value of September 1965. The mean daily values of Piche and pan evaporation were lower than the corresponding values of last September by 1.1 and 0.04 mm respectively. The total actual duration of bright sunshine was 18.0 hours lower than the corresponding value of September 1965.

### GIZA — SEPTEMBER 1966

The month was rather warm and slightly dry as compared with the normal values of air temperature and relative humidity for September at Giza. The mean daily air temperature at 2 metres height above ground was 0.9°C above normal while the mean daily relative humidity was 2% below normal. The month was characterised by a warm spell on the 9th and a moderate heat wave in the period 20th to 24th with peak on 21st which were associated with the absolute maximum air temperature and the lowest relative humidity for the month.

The extreme maximum soil temperatures at 0.3, 1 and 2 cm depths were lower while at other depths down to 100 cm the values were higher than the corresponding values of September 1965. The extreme differences were 7.3°C at 2 cm depth and 1.1°C at 5 cm depth. The extreme minimum soil temperature at 0.3, 1 and 2 cm depths were higher while at other depths down to 50 cm the values were lower than the corresponding values of last September. The extreme differences were -0.1°C at 50 cm depth and 4.8°C at 2 cm depth. The extreme minimum soil temperature at 100 cm depth was equal to the corresponding value of September 1965.

Mean daily wind speed was 0.2 m/sec. higher than the average value during the period 1956-1965. Mean daily values of Piche evaporation and water pan evaporation were 1.1 and 1.68 mm respectively below average. Total potential evapotranspiration was 10.0 mm higher than the corresponding value of September 1965. Total actual duration of bright sunshine was 9.7 hours higher than average.

### KHARGA — SEPTEMBER 1966

This month was warmer than normal. Mean daily air temperature at two metres height above ground was 1.3°C above normal. The month was characterised by a prolonged heat wave that prevailed during the period 15th-29th with peak on the 24th of the month which gave rise to the absolute maximum air temperature of the month.

The extreme maximum soil temperature in the dry field at depths 0.3 and 1 cm were lower than the corresponding values of September 1965. The extreme maximum soil temperature at 2 cm depth was the same as the corresponding value of last September while at depths between 5 and 100 cm. inclusive the values were higher than the corresponding values of September 1965. The extreme minimum soil temperatures at depth 0.3 cm was lower than the corresponding value of last September, while at all other depths down to 100 cm depth, the values were higher than the corresponding values of September 1965. The extreme differences were -0.5°C and + 1.3°C at 0.3 and 10 cm depths respectively.

Mean daily wind speed at 2 metres height was 0.1 m/sec. higher than the corresponding value of last September. Mean daily values of Piche evaporation and pan evaporation were 2.8 and 0.51 mm respectively higher than the corresponding values of September 1965. Total actual duration of bright sunshine was 27.8 hours lower than the corresponding value of last September.

**Table C 1.—AIR TEMPERATURE AT 2 METRES ABOVE GROUND  
SEPTEMBER — 1966**

STATION	Air Temperature (°C)					Mean Duration in hours of daily air temperature above the following values											
	Mean Max.	Mean Min.	Mean of the day	Night time mean	Day time mean	-5°C	0°C	5°C	10°C	15°C	20°C	25°C	30°C	35°C	40°C	45°C	
El Kasr . . . . .	28.3	19.3	24.1	22.3	25.9	24.0	24.0	24.0	24.0	24.0	20.3	10.4	0.0	0.0	0.0	0.0	
Tahrir . . . . .	32.8	18.7	25.1	22.3	27.8	24.0	24.0	24.0	24.0	24.0	19.8	10.8	4.6	0.1	0.0	0.0	
Giza . . . . .	33.2	19.8	26.2	23.8	28.4	24.0	24.0	24.0	24.0	24.0	22.1	12.8	5.1	0.0	0.0	0.0	
Kharga . . . . .	37.4	22.9	30.3	27.6	32.6	24.0	24.0	24.0	24.0	24.0	23.9	20.2	12.2	4.8	0.5	0.0	

**Table C 2.—ABSOLUTE VALUES OF AIR TEMPERATURE AT 2 METRES ABOVE GROUND,  
ABSOLUTE MINIMUM AIR TEMPERATURE AT 5cms ABOVE GROUND OVER DIFFERENT FIELDS**

SEPTEMBER — 1966

STATION	Max. Temp. at 2 metres				Min. Temp. at 2 metres				Min. Temp. at 5 cms. above			
	Highest		Lowest		Highest		Lowest		Dry Soil		Grass	
	Value	Date	Value	Date	Value	Date	Value	Date	Value	Date	Value	Date
El Kasr . . . . .	33.0	21	27.4	15	23.6	4, 5, 10	16.1	14	13.2	20	—	—
Tahrir . . . . .	36.3	21	29.8	30	23.6	21	15.8	18	14.3	18	—	—
Giza . . . . .	35.9	9	30.3	30	22.9	22	16.8	18, 19, 20	13.7	19	10.8	18
Kharga . . . . .	41.0	24	33.2	30	27.5	24	18.5	9	16.0	9	—	—

**Table C 3.—(SOLAR + SKY) RADIATION, DURATION OF BRIGHT SUNSHINE, RELATIVE HUMIDITY & VAPOUR PRESSURE AT 2 METRES ABOVE GROUND, EVAPORATION & RAINFALL**

SEPTEMBER — 1966

STATION	Solar+Sky Radiation gm. cal/cm <sup>2</sup>	Duration of Bright Sunshine (hours)			Relative Humidity %					Vapour Pressure (mms)					Evapo- tion(mms)	Rainfall (mms)						
		Total	Actual	Total Possible monthly	%	Duration in hours	90 %	80 %	Mean of day V 90 %	1200 U.T.	Lowest	Date	Mean of day	1200 UT	Highest	Date	Lowest	Date	Piche Pan class (A)	Total Amount monthly	Max. fall in one day	Date
El Kasr	435.5	317.7	371.2	85	—	—	70	61	53	4	16.4	16.7	20.1	21	14.0	4	9.5	9.74	8.8	8.8	27	
Tahrir	522.0	300.8	370.8	81	5.2	10.1	69	40	25	21	13.5	15.6	19.6	8	9.8	29	11.4	8.66	Tr.	Tr.	28	
Giza	532.0	318.9	370.8	85	1.5	6.4	61	37	24	21	14.8	13.0	19.2	12	9.7	21	14.8	10.51	Tr.	Tr.	28	
Kharga	504.0	343.1	369.0	93	0	0	31	20	12	8	9.5	9.2	15.6	2	5.6	8	37.3	18.80	0.0	0.0	—	

Table C. 4.—EXTREME SOIL TEMPERATURE AT DIFFERENT DEPTHS (cms)  
IN DIFFERENT FIELDS

SEPTEMBER 1966

STATION	Highest (H) Lowest (L)	Extreme soil temperature (°C) in dry field at different depths (cms.)										Extreme soil temperature (°C) in grass field at different depths (cms.)									
		0.3	1	2	5	10	20	50	100	200	300	0.3	1	2	5	10	20	50	100	200	300
El Ksar . . . .	H	51.5	42.3	42.9	39.0	34.8	30.5	28.6	27.2	25.1	—	—	—	—	—	—	—	—	—	—	—
	L	19.0	20.8	20.0	20.0	21.0	23.8	25.6	25.9	24.8	—	—	—	—	—	—	—	—	—	—	—
Tahrir . . . . .	H	54.0	50.1	47.0	44.8	39.9	34.8	32.6	31.5	29.7	28.4	—	—	—	—	—	—	—	—	—	—
	L	16.6	17.5	17.0	21.0	23.1	26.9	28.9	29.6	29.3	28.3	—	—	—	—	—	—	—	—	—	—
Giza . . . . .	H	57.1	52.5	48.1	42.2	37.6	34.1	33.5	31.8	29.0	27.2	36.4	32.1	31.8	29.9	28.7	27.8	27.8	26.4	25.0	—
	L	17.5	19.6	21.8	24.0	28.0	30.2	31.2	31.0	28.7	26.6	18.4	18.6	19.2	22.2	23.3	24.8	26.1	25.8	24.6	—
Kharga . . . . .	H	—	—	49.0	44.3	38.7	35.9	34.7	33.3	31.4	30.0	—	—	—	—	—	—	—	—	—	—
	L	—	—	21.3	24.4	28.8	31.5	32.8	32.5	31.2	29.5	—	—	—	—	—	—	—	—	—	—

Table C 5.—SURFACE WIND

SEPTEMBER 1966

STATION	Wind Speed m/sec at 2 metres			Days with surface wind speed at 10 metres								Max. Gust. at 10 metres	
	Mean of the day	Night time mean	Day time mean	≥ 10 knots	≥ 15 knots	≥ 20 knots	≥ 25 knots	≥ 30 knots	≥ 35 knots	≥ 40 knots		value	Date
El Ksar . . . .	3.6	3.0	4.6	—	—	—	—	—	—	—	—	—	—
Tahrir . . . . .	2.5	1.8	3.4	30	11	2	0	0	0	0	0	31	22
Giza . . . . .	2.2	1.8	2.7	30	9	1	0	0	0	0	0	28	9
Kharga . . . . .	4.6	3.7	5.7	30	24	6	0	0	0	0	0	31	17

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